

0991831-07301
T0820 T28T660

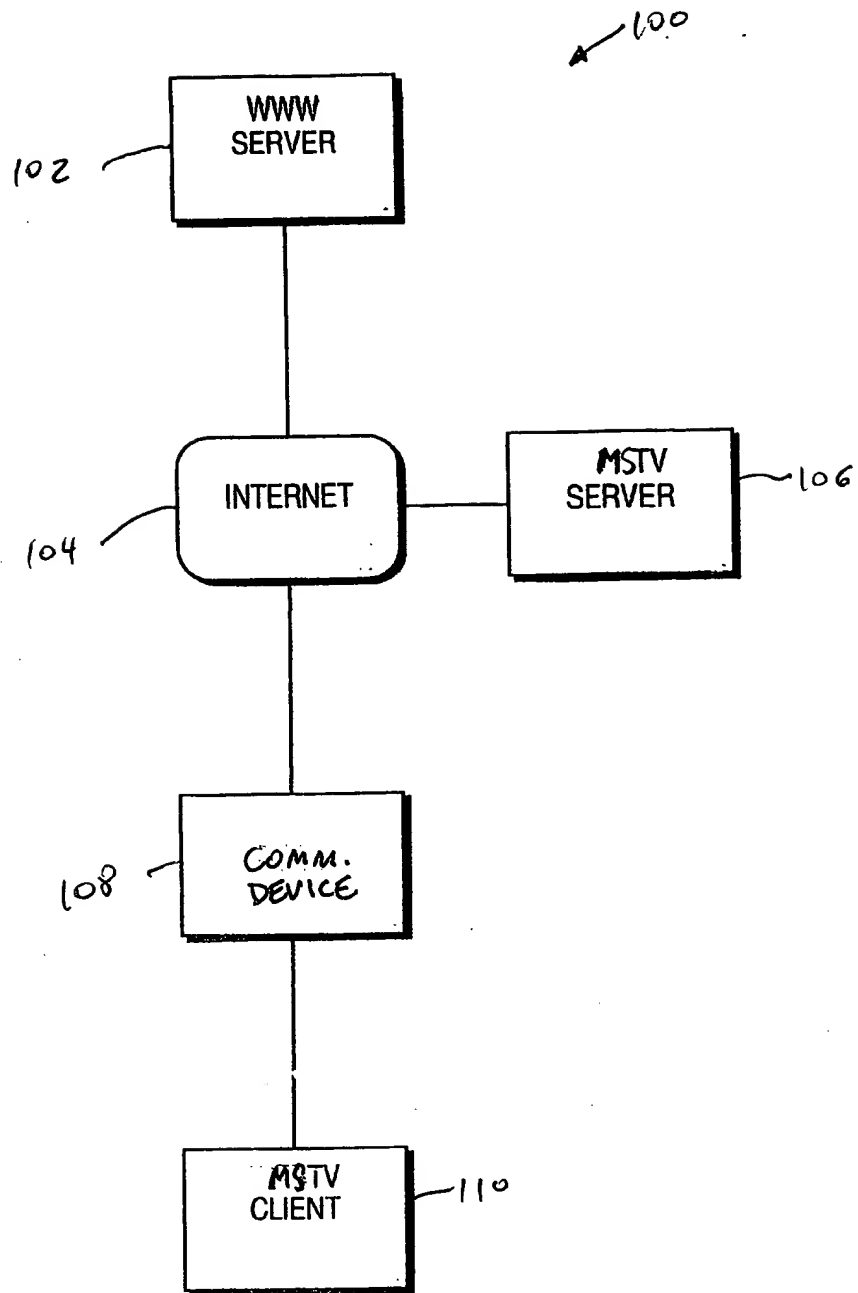


FIG. 1

A block diagram of a system 110. At the top is a television (TV) labeled 204. Below it is a Set-Top Box (STB) labeled 202. A line labeled 208 connects the STB 202 to the TV 204. To the right of the STB 202 is a horizontal double-headed arrow labeled DATA. Below the STB 202 is a remote control labeled 206. A dashed arrow labeled IR points from the remote 206 to the STB 202. A line labeled AC points from below to the STB 202.

FIG. 2

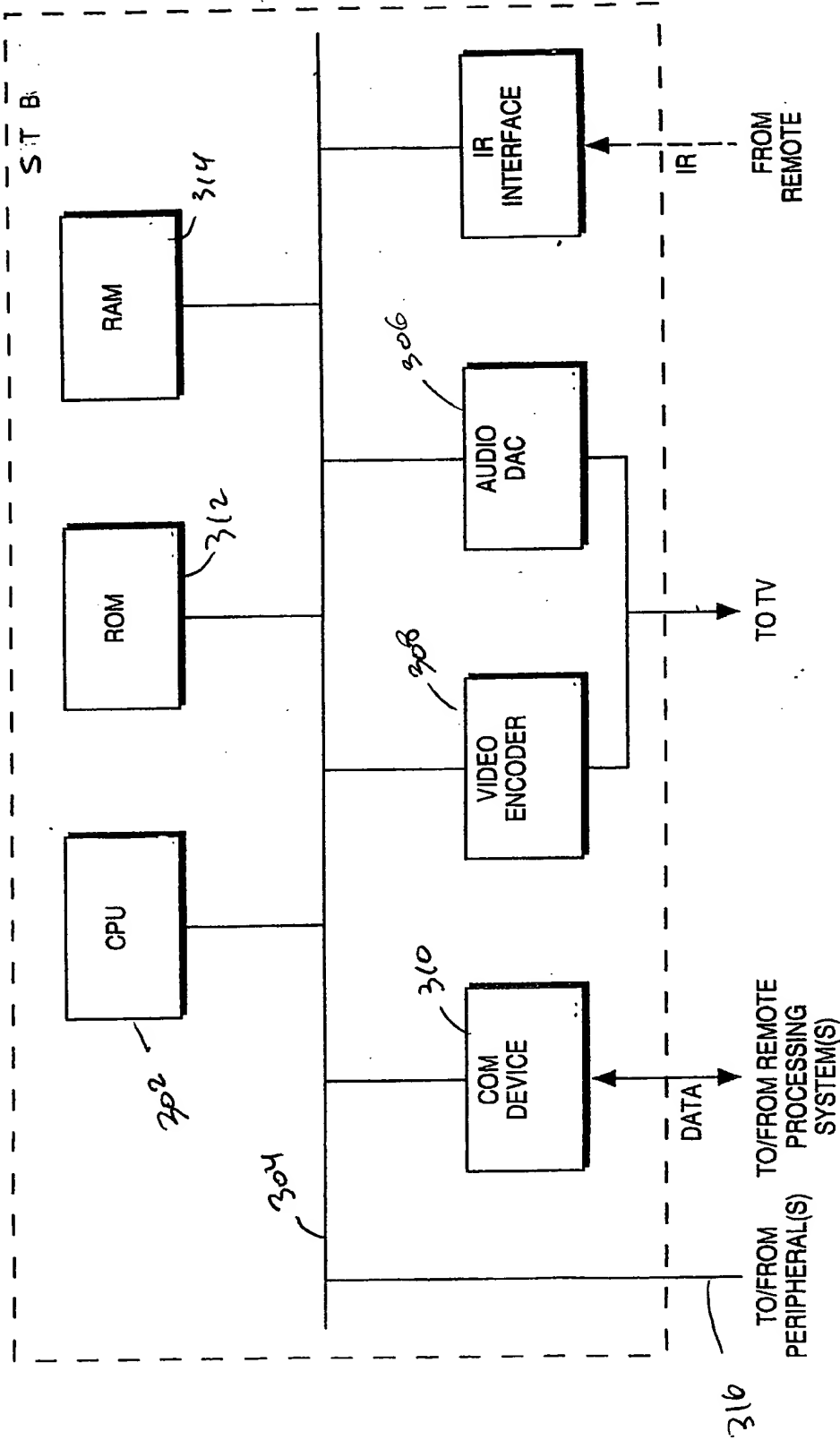


FIG. 3

FIG. 4

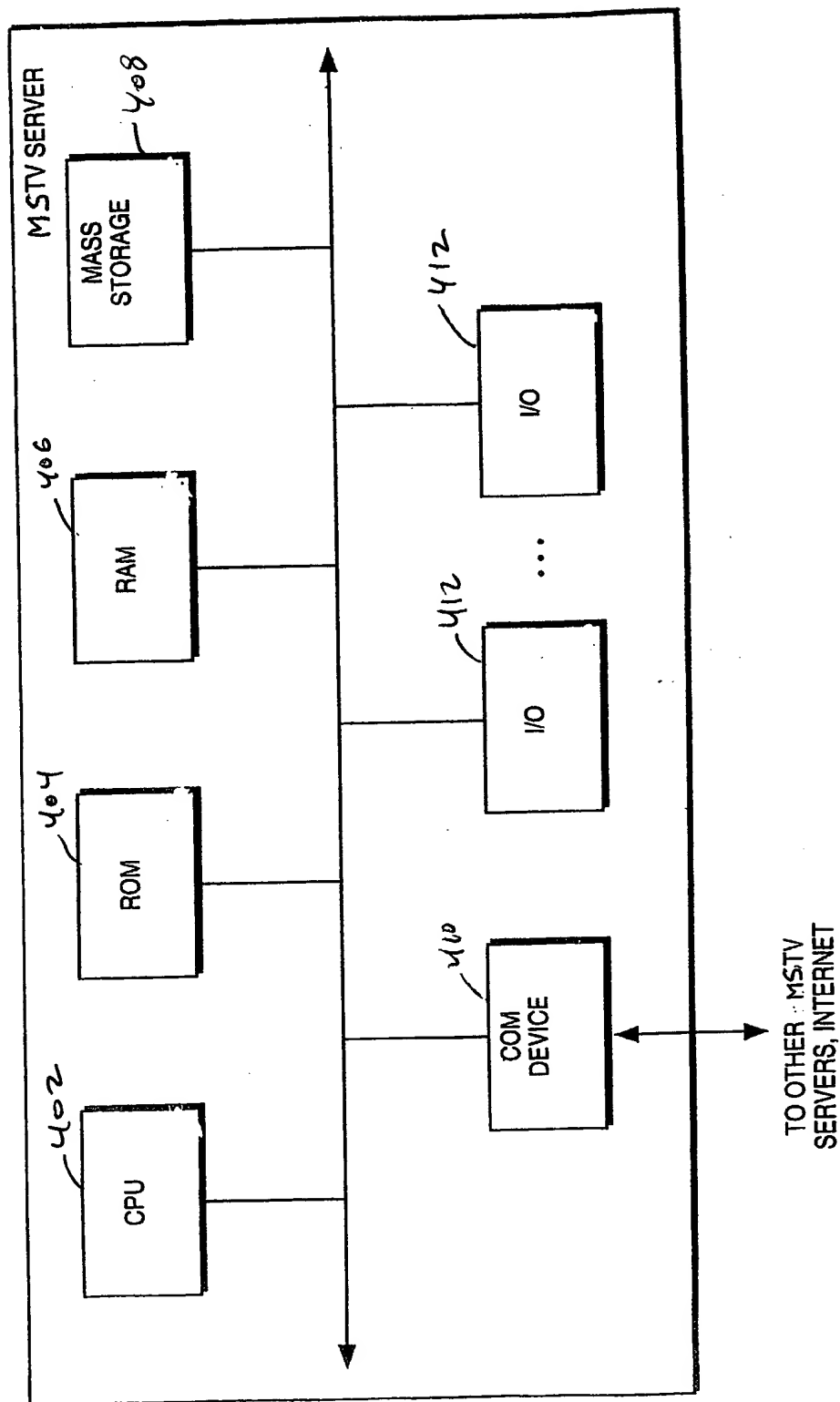


FIG. 4

FIG. 5

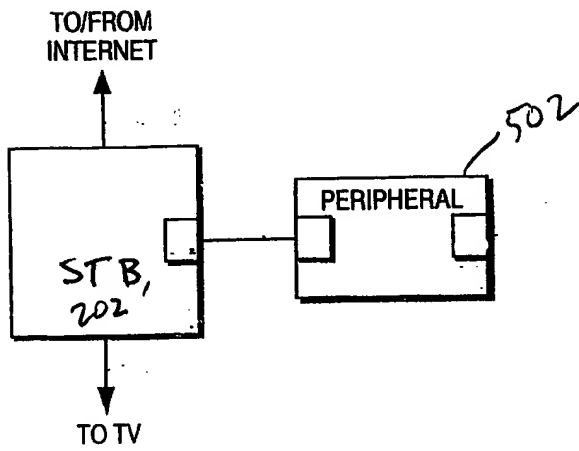


FIG. 5

602

Detect Device Event, 604



Transmit Request to Obtain
Software or Data, 606



Select Software or Data
From First Source, 608



Receive Selected Software
Or Data From First Source, 610

FIG. 6A

FIG. 6A

612

Detect Device Event, 614



Transmit Request to
Obtain Software or Data, 616



Select Software or Data
For Peripheral Device, 618



Receive Software or Data
From First Source, 620

FIG. 6B

FIG. 6B

622

Detect Device Event, 624



Execute Corresponding Function, 625

FIG. 6C

2025-10-20 14:28:00

626

Receive Peripheral Device Signal, 628



Process Signal to Generate
Intermediary Signal, 630



Transmit Intermediary Signal
To Digital Processing System, 632

FIG. 6D

FIG. 6D

634

Receive peripheral device signal, 636



Process peripheral device signal, 638



Execute corresponding function, 640



Open Communications Channel Between
Client and Data/Software Source, 642

FIG. 6E

FIG. 6E

CLIENT

SERVER

DETECT INSTALLATION OR OTHER
EVENT FROM PERIPHERAL DEVICE, 644

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DETERMINE BROWSER CONTENT
AND/OR CONTROL REQUIRED, 646

↓

INSTRUCT BROWSER TO NAVIGATE
TO E-COMMERCE OR OTHER URL, 648

↓

PROMPT USER AS REQUIRED, 650

↓

TRANSMIT E-COMMERCE OR
OTHER DATA TO SERVER, 652

RECEIVE E-COMMERCE OR
OTHER DATA FROM CLIENT, 654

↓

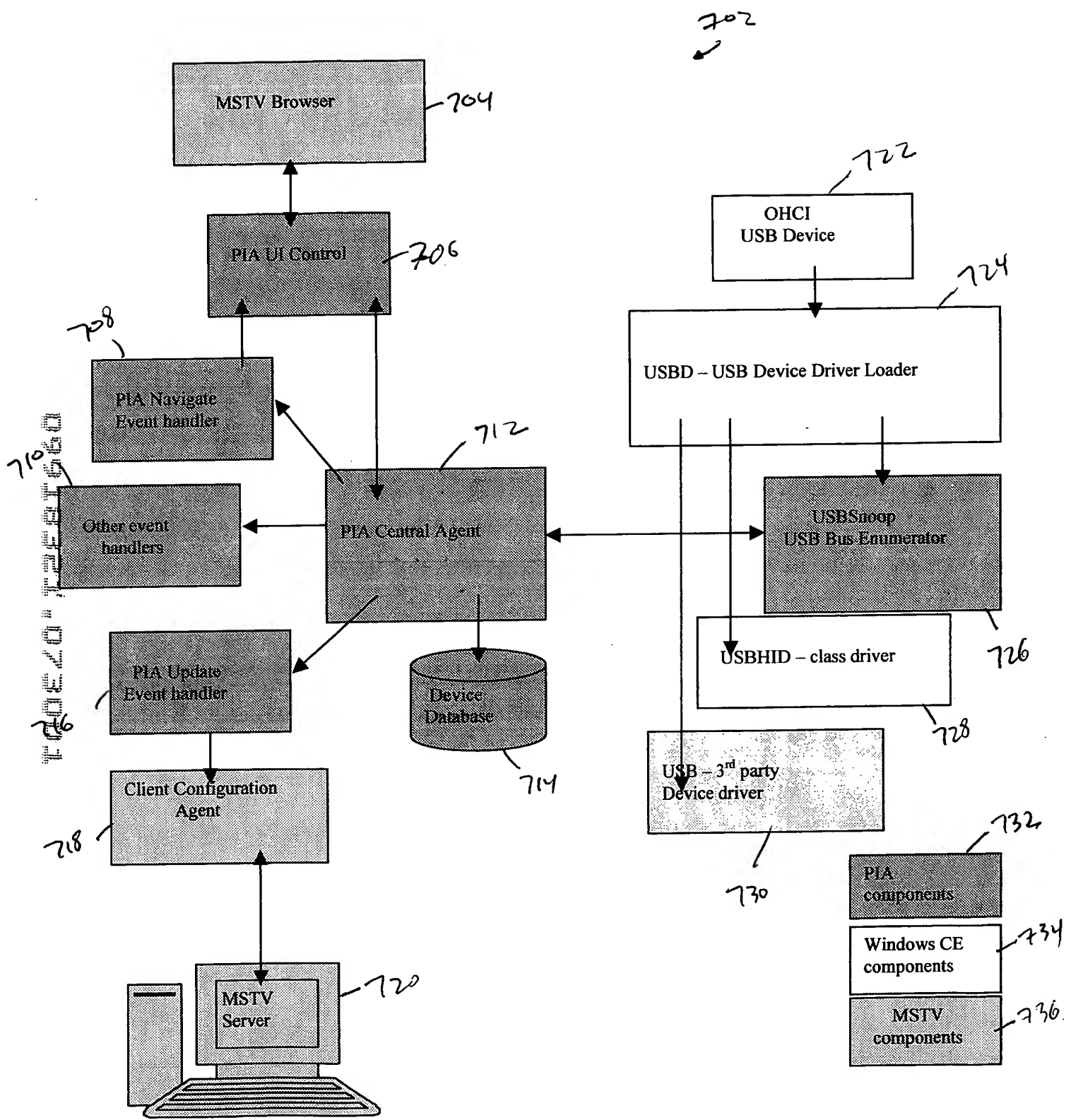
DETERMINE APPROPRIATE
RESPONSE, 656

↓

DOWNLOAD E-COMMERCE OR
OTHER DATA TO CLIENT, 658

RECEIVE E-COMMERCE OR
OTHER DATA FROM SERVER, 660

FIG. 6F



702

724

730

716

712

726

738

718

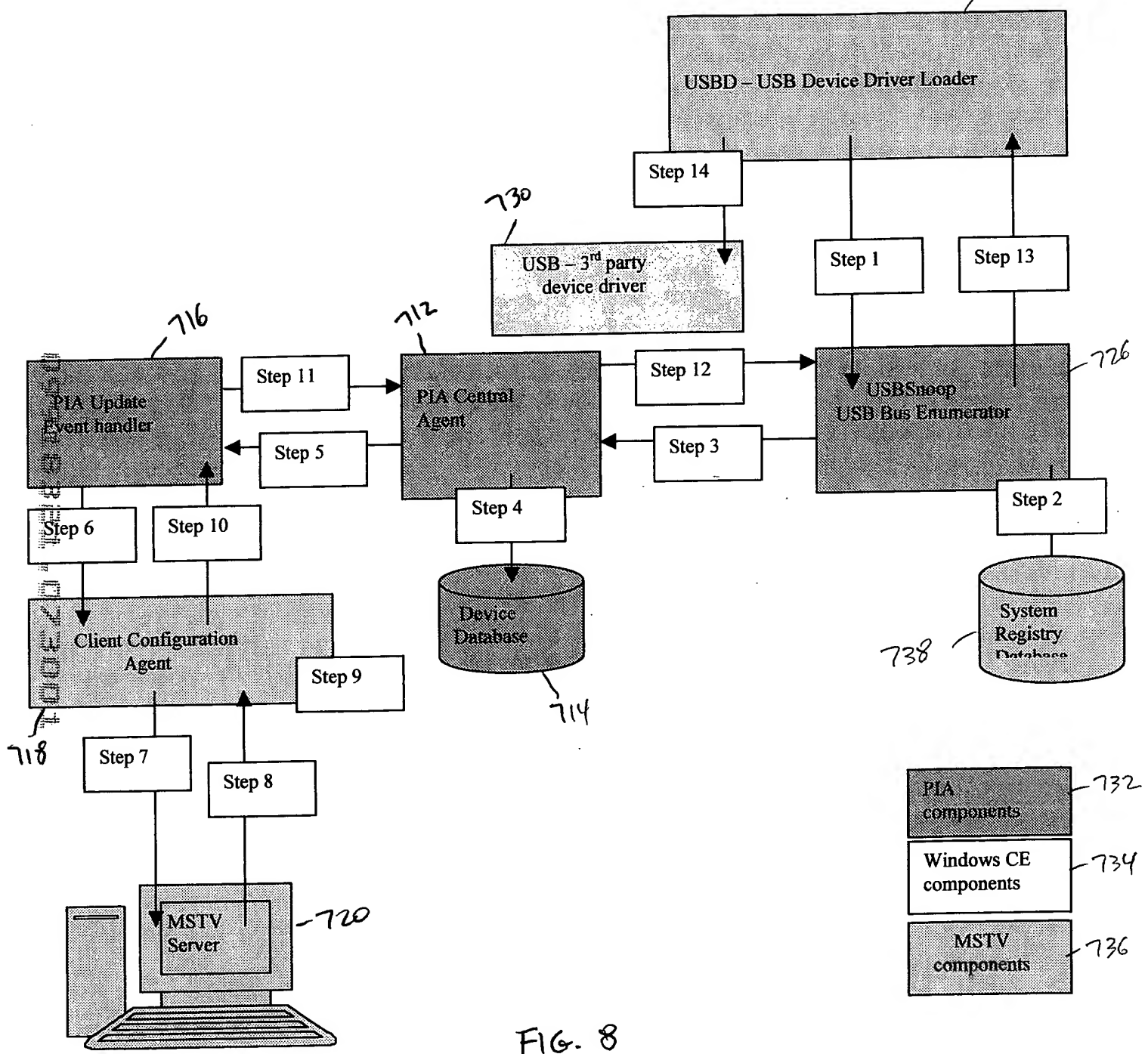
720

732

734

736

FIG. 8



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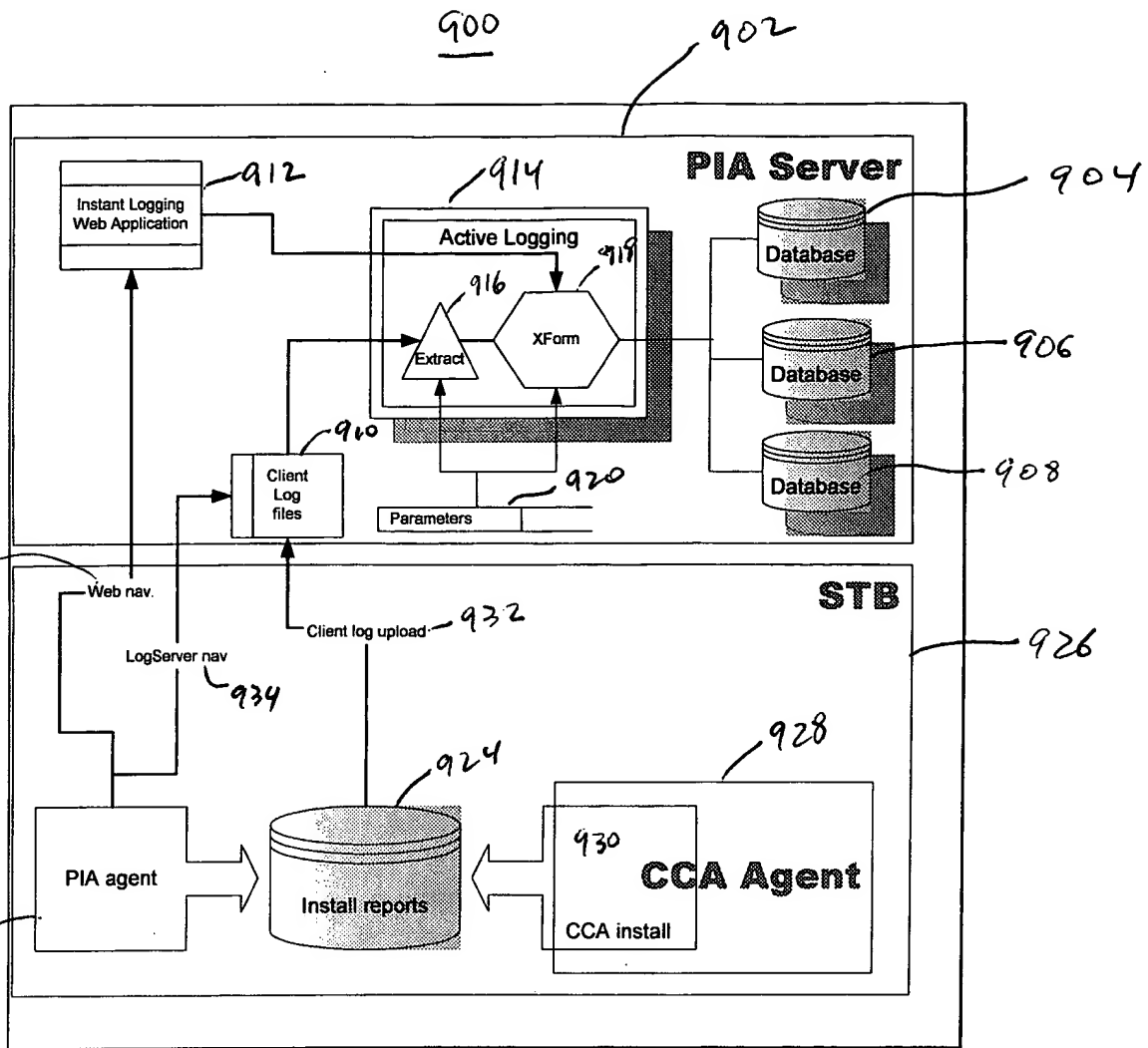


FIG. 9

Non-Interactive:

Step 1: *O* adds entry to handle *d*'s
insertion into *s* into *PIADevice.xml*,
and updates *CCS*



Step 2: *O* prepares Extractor XSL Stylesheet,
Defines How *STB ID* Is Transformed Into *User ID*,
Adds Other Details *W* Needs to Complete Transaction



Step 3: Client Assembles Data and Message
Structure, Sends Message



Step 4: *S* Receives Message and Creates User Record



Step 5: *S* forwards record to *E*;
E enters transaction in Its Processor

Interactive:

Step 1: *O* adds entry to handle *d*'s insertion
into *s* into *PIADevice.xml* and updates *CCS*



Step 2: *O* prepares Transformer XSL Stylesheet
(w/ URL of Website where appropriate)



Step 3: *PIADevice.xml* Contains, for *d*'s Activation on *s*,
NAVIGATE Directive to Direct Packaging of Arguments;
Request in HTTP to Web Server



Step 4: Web Server Creates Customer Record, Uses XSL Transformation
Stylesheet to Prepare Record, and Where Appropriate, *w* Connects Interactive
Application on *e* to *s*, Sending *e* the Initial Data it Transformed

FIG. 10

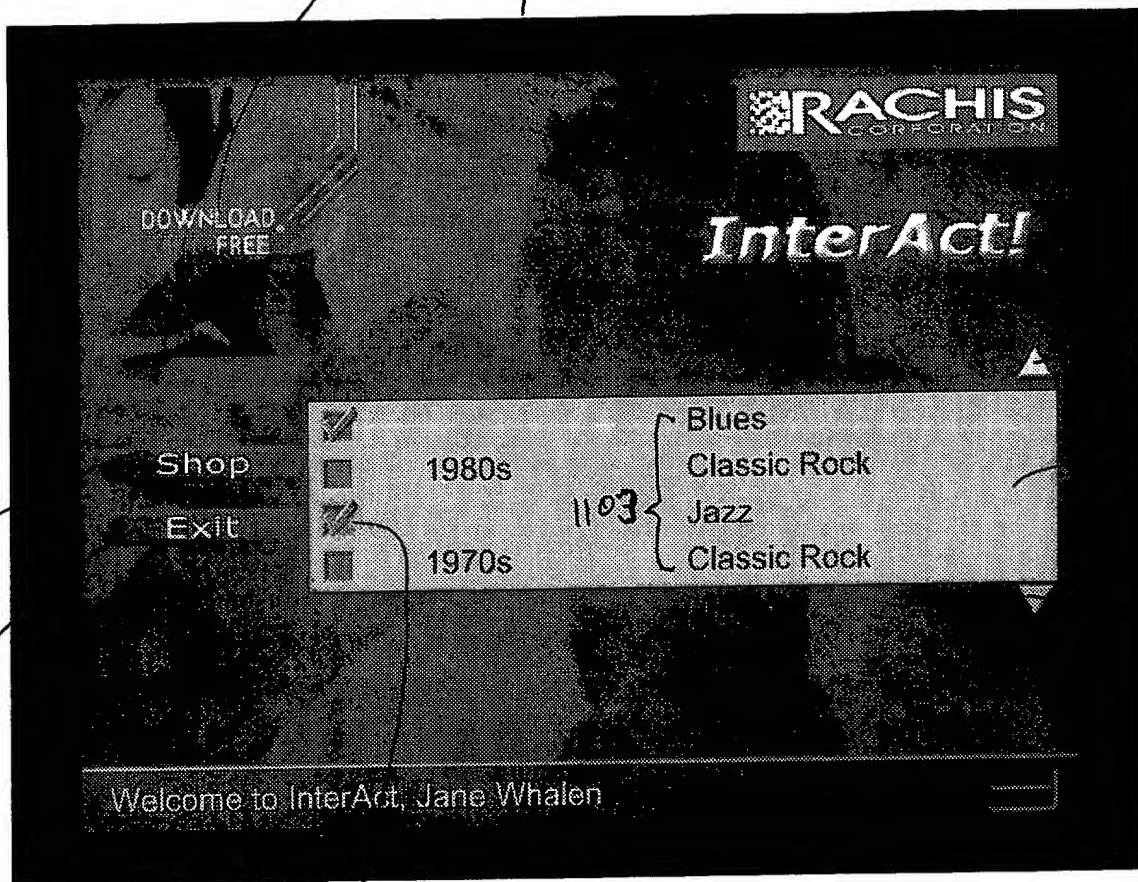


FIG. 11

FIG. 12
1114
1118
1116

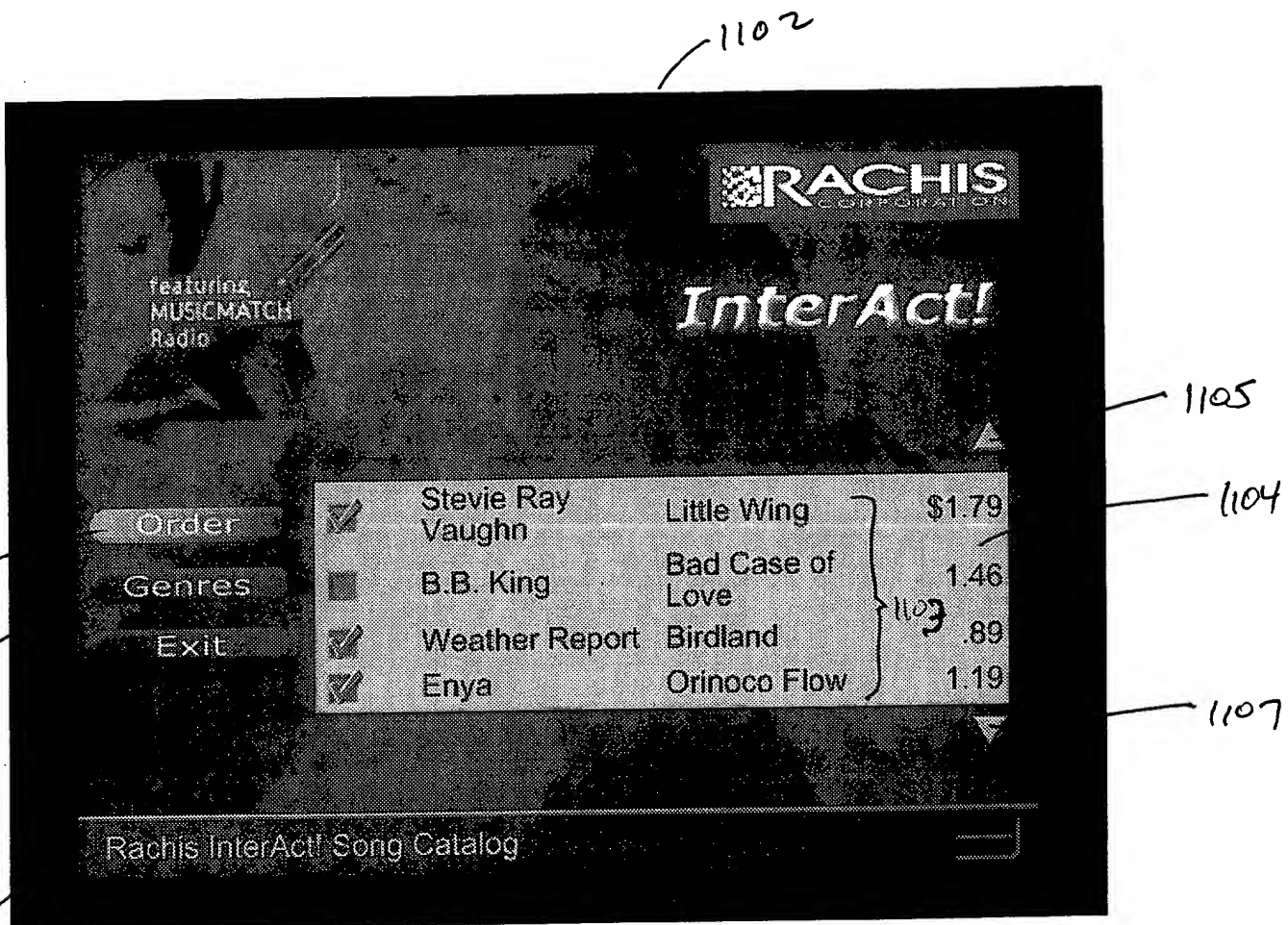
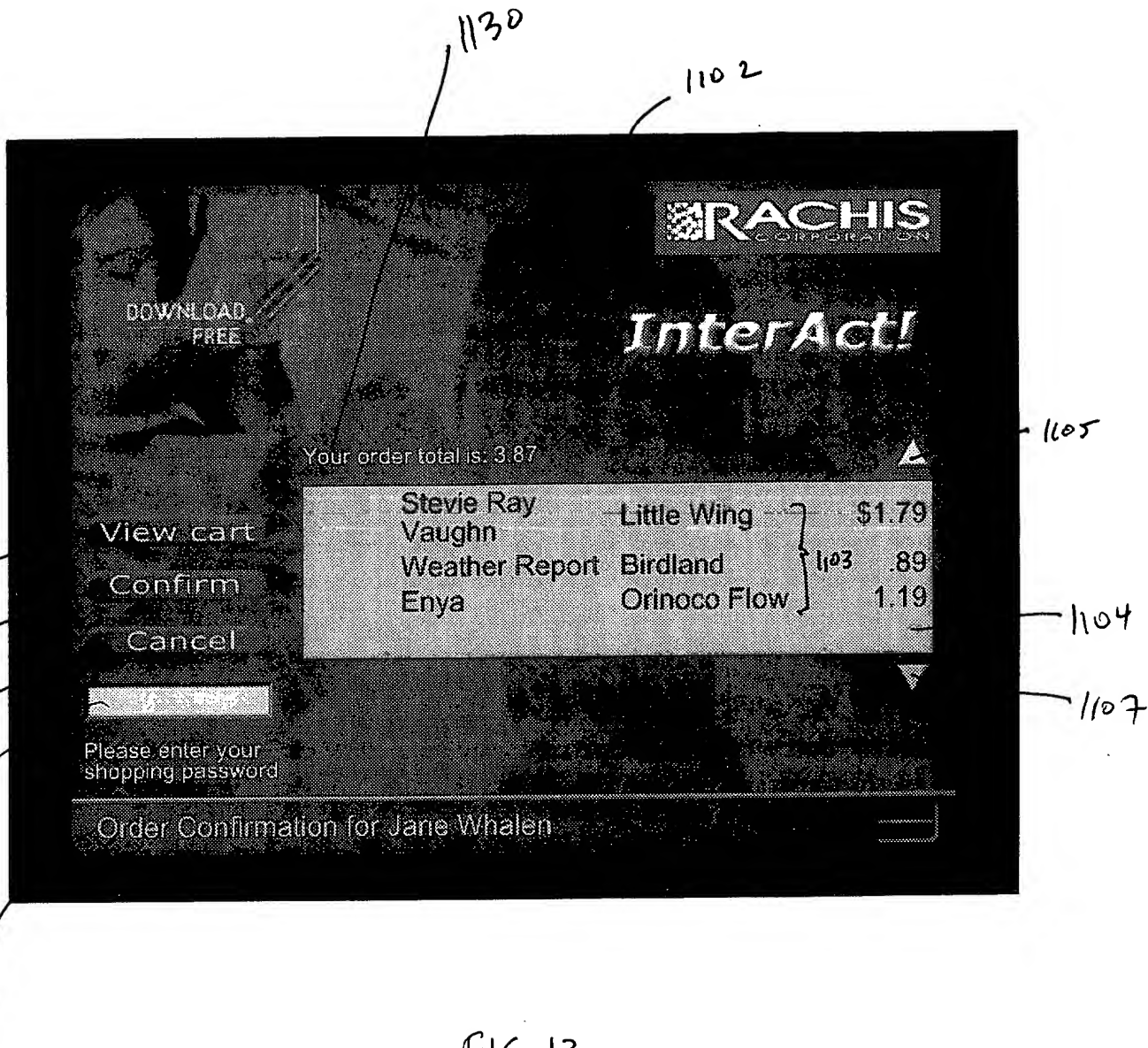


FIG. 12

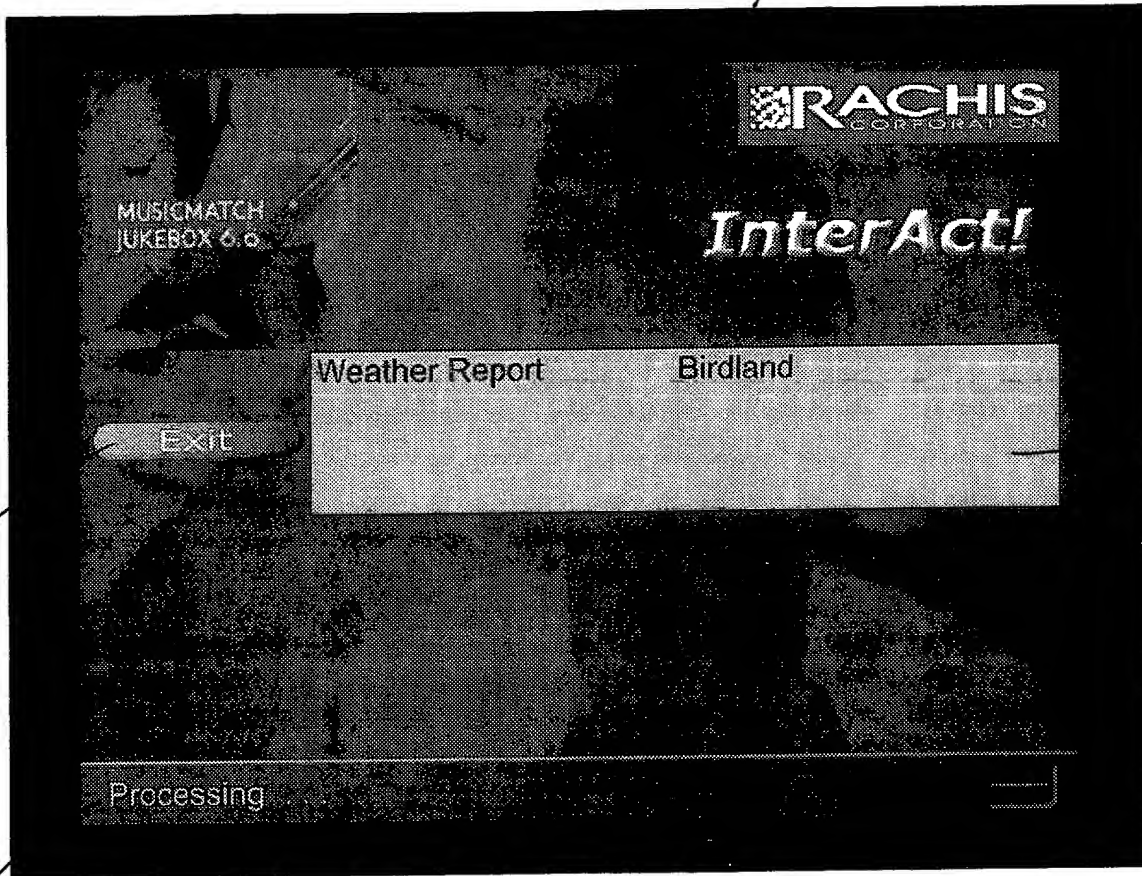


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32

114

1102



1104

FIG. 14

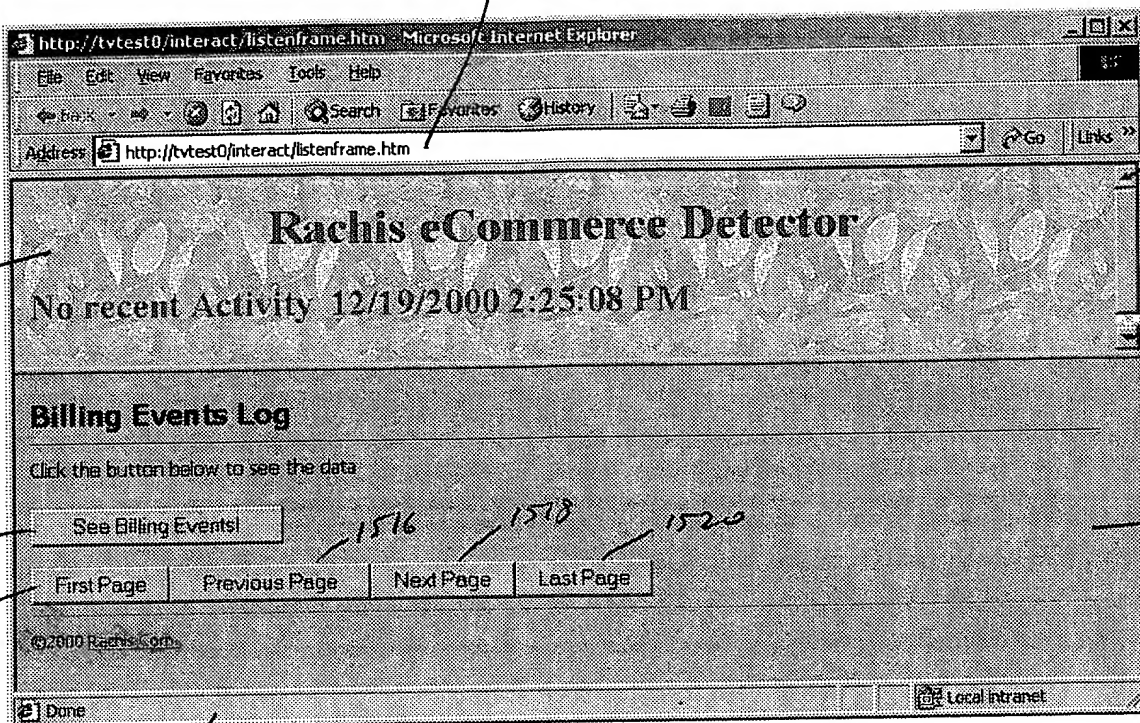


FIG. 15

